

WHAT IS CLAIMED IS:

1. An information recording apparatus for optically recording information onto an information recording medium having a plurality of information layers, comprising:

5 a detecting device for detecting a position of a boundary portion between a recorded area where the information has already been recorded and an unrecorded area in the information recording layer;

an inhibiting device for inhibiting recording the information onto an area in one information recording layer in a case where the boundary portion in an information recording layer may affect a tracking servo for recording the information onto said one information recording layer.

10 2. The information recording apparatus according to claim 1, wherein the inhibiting device includes a determining device for determining a degree of the effect of the boundary portion on the tracking servo on the basis of the number of recorded or unrecorded tracks of the other information recording layers within a range of a diameter of a luminous flux in the boundary portion irradiated with a light beam for recording.

15 3. An information recording apparatus for optically recording information onto an information recording medium having a plurality of information layers with a light beam for recording, comprising:

20 a recording device for recording the information onto the target information recording;

a tracking error detecting device for detecting a tracking error on the basis of the light beam receiving signal;

25 a controlling device for controlling a recording order for the respective information recording layers so as to start recording onto another information recording layer when recording onto the whole area of

the target information recording layer is completed.

4. The information recording apparatus according to claim 3,
wherein the controlling device controls the recording order so as to record
information onto an adjacent information recording layer one by one
5 toward a light beam emitting source from the information recording layer
farthest from the light beam emitting source.

5. The information recording apparatus according to claim 3,
wherein the controlling device controls the recording order so as to record
information onto an adjacent information recording layer one by one
10 farther from a light beam emitting source from the information recording
layer nearest the light beam emitting source.